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Amendments to the Claims

1. (previously presented) A purified polypeptide having an amino acid sequence comprising the amino acid sequence of SEQ ID NO: 4.
2. (previously presented) The purified polypeptide of claim 1 which has an amino acid sequence that consists essentially of the amino acid sequence of SEQ ID NO: 4.
- 3-14. (canceled)
15. (withdrawn) An isolated nucleic acid comprising a nucleotide sequence that encodes a polypeptide comprising the amino acid sequence of SEQ ID NO: 4.
16. (withdrawn) The nucleic acid of claim 15 that comprises the nucleotide sequence of Seq. ID No. 5.
17. (withdrawn) The nucleic acid of claim 15 that hybridizes under highly stringent conditions to the complement of the nucleotide sequence of SEQ ID NO: 5.
- 18-35. (canceled)

36. (withdrawn) An isolated antibody that selectively binds to the polypeptide of claim 1.
37. (withdrawn) The antibody of claim 36 that selectively binds to the polypeptide of SEQ ID NO: 4.
38. (withdrawn) The antibody of claim 37 which is a monoclonal antibody.
39. (withdrawn) The antibody of claim 37 which is a polyclonal antibody.
- 40-45. (canceled)
46. (withdrawn) A method for inhibiting *Streptococcus uberis* from adhering onto and/or internalizing into bovine mammary epithelial cells comprising exposing the cells to an antibody that selectively binds to the polypeptide of claim 1.
47. (withdrawn) The method of claim 46 wherein the antibody selectively binds to the polypeptide of SEQ ID NO: 4.
48. (currently amended) A purified polypeptide ~~having an amino acid sequence~~ consisting of the amino acid sequence of SEQ ID NO: 4.

49. (new) The purified polypeptide of claim 1 which comprises, extending from the carboxy terminal amino acid of SEQ ID NO: 4, an additional amino acid sequence consisting of a portion or all of amino acids 81 to 905 of SEQ ID NO: 15.

50. (new) The purified polypeptide of claim 49 wherein the additional amino acid sequence is all of amino acid 81 to amino acid 905 of Seq. ID NO: 15.

51. (new) The purified polypeptide of claim 49 wherein the additional amino acid sequence is from amino acid 81 to an amino acid before amino acid 905 of SEQ ID NO: 15.